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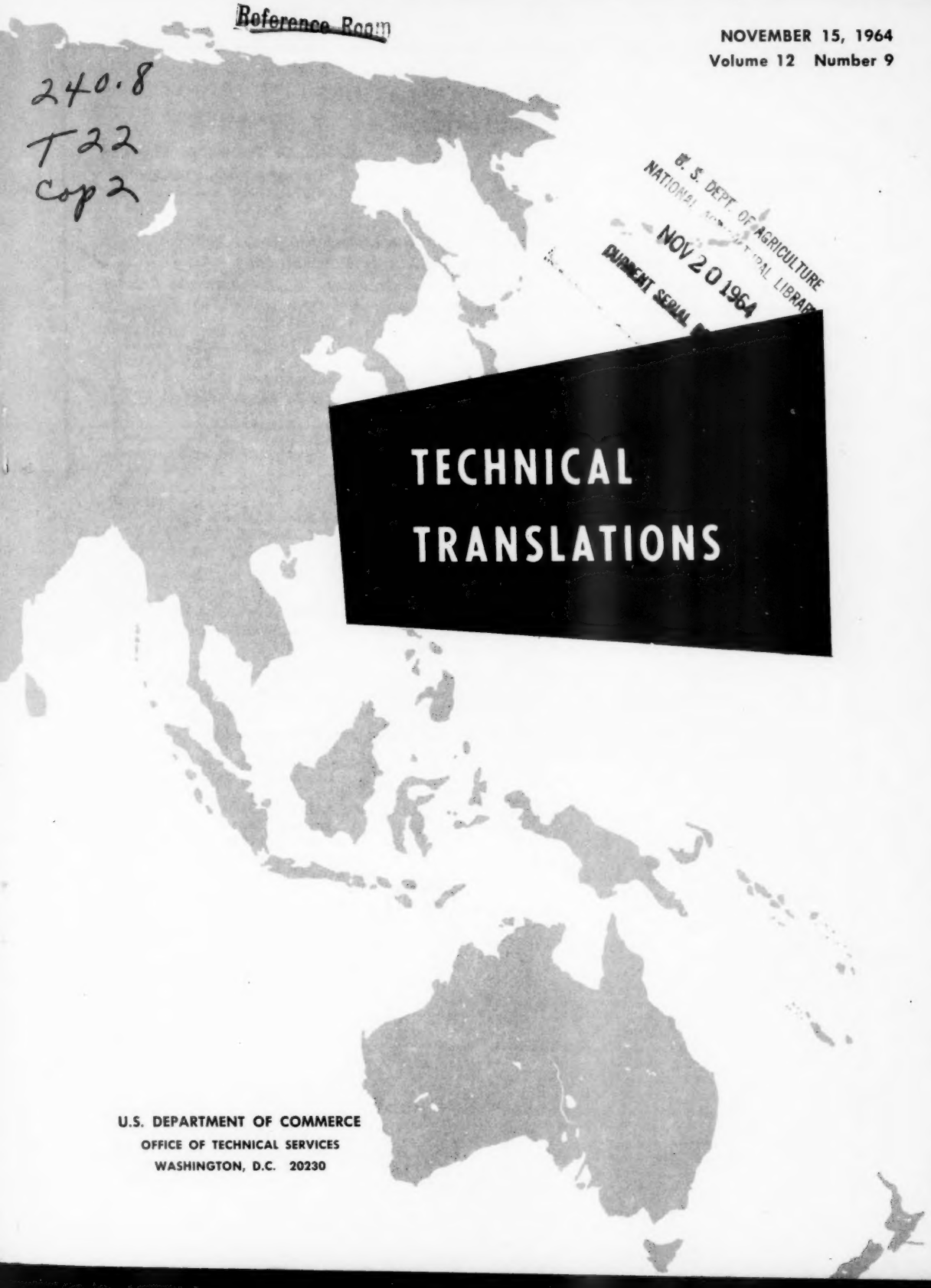

U.S. DEPARTMENT OF COMMERCE
OFFICE OF TECHNICAL SERVICES
WASHINGTON, D.C. 20230

TECHNICAL TRANSLATIONS

U.S. DEPARTMENT OF COMMERCE
Luther H. Hodges, *Secretary*

OFFICE OF TECHNICAL SERVICES
Donald A. Schon, *Director*

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OTS has changed also its system of microphotography from microfilm to microfiche (a unitized sheet form of microphotography). Most Government agencies are converting because microfiche has many advantages over microfilm. It can be produced faster and at less cost, disseminated rapidly, filed and stored easily.

OTS will use the International Standard size of microfiche sheet of 105 mm. x 148 mm. (approximately 4" x 6"). Image size will be generally an 18:1 reduction.

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The Special Literature Searching Service is a subscription-type service to provide subscribers with bibliographic information tailored to their specifications. For information on this service, write to OTS, U. S. Department of Commerce, Washington, D. C., 20230.

HOW TO ORDER TRANSLATIONS

The translations reported in this issue are arranged under the categories indicated in the Contents. The sub-groups of the categories are flexible and used only when there are several translations in a particular sub-group. When the subject of a sub-group is not included in the Contents, reference should be made to the general category into which it falls.

References to sources of original text are given as they appear on the translation, with sufficient editing to assure uniformity in citations.

Some of the translation notes for individual translations have been marked with the symbol (#) preceding the name of the journal. This symbol indicates that the particular journal is also translated cover-to-cover.

Listed below are agencies from which translations may be purchased. Each entry in the Technical Translations indicates by symbol the agency from which the translation should be ordered, the cost of the translation (if known), and the number by which the translation may be ordered, if such a number exists. Make check or money order payable to the agency indicated.

SYMBOLS FOR SOURCES OF TRANSLATIONS

AC
A. Capelo
P. O. Box 46354
Hollywood, California 90046

AGI
AGI Translations Office
American Geological Institute
1444 N Street, N. W.
Washington, D. C. 20005

AGS
American Geographical Society
Broadway at 156th Street
New York, New York 10032

AGU
American Geophysical Union
Suite 506, 1145-19th Street, N. W.
Washington, D. C. 20036

AIAA
American Institute of Aeronautics and Astronautics
500 Fifth Avenue
New York, New York 10036

AIBS
American Institute of Biological Sciences
2000 P Street, N. W.
Washington, D. C. 20006

AIP
American Institute of Physics
335 East 45th Street
New York, New York 10017

AIS
Argus Information Service
624 N. Eutaw Street
Baltimore, Maryland 21201

AM
Acta Metallurgica
122 East 55th Street
New York, New York 10022

AMS
American Mathematical Society
190 Hope Street
Providence, Rhode Island 02906

ANSP
Academy of Natural Sciences of Philadelphia
19th St. and the Parkway
Philadelphia, Pennsylvania 19103

API
Academic Press, Inc.
111 Fifth Ave.,
New York, New York 10003

ARS
American Rocket Society, Inc.
20th and Northampton Streets
Easton, Pennsylvania 18042

ATS
Associated Technical Services, Inc.
P. O. Box 271
East Orange, New Jersey 07017

BGIRA
British Glass Industry Research Association
Northumberland Road
Sheffield 10, England

BIHR
Circulation Manager
Translations of the Beltone Institute for Hearing Research
2900 West 36th Street
Chicago, Illinois 60632

BISI
British Iron & Steel Industry Translation Service
The Iron and Steel Institute
4, Grosvenor Gardens
London, S. W. 1, England

BWRA
British Welding Research Association
Abington Hall, Abington
Cambridge, England

CB
Consultants Bureau Enterprises Inc.
227 West 17th Street
New York, New York 10011

CCT
Consultants Custom Translations Inc.
227 West 17th Street
New York, New York 10011

CHP
Cleaver-Hume Press, Ltd.
31 Wright's Lane
London, W. 8, England

CID
Centro de Informacion y Documentacion
Patronato Juan de la Cierva,
Serrano 150, Apartado 743,
Madrid 6, Spain

CIDNT
Centralny Instytut Dokumentacji Naukowo-Technicznej
Warszawa 12
Aleja Niepodleglosci 188
Poland

CNP
Comitato Nazionale per la Produttivita
Service d'Information
Viale Regina Margherita N. 83D
Rome, Italy

CNRS
Centre National de la Recherche Scientifique
Centre de Documentation
15 Quai Anatole France
Paris 7, France

CSIRO
Commonwealth Scientific and Industrial Research Organization
Information Service
314 Albert Street
East Melbourne C. 2, Victoria
Australia

CTRA
The Librarian
The Coal Tar Research Association
Oxford Road
Gomersal, Leeds, England

CTS (Chem)
Chemical Translating Service
2243 Greer Road
Palo Alto, California 94300

CTT
Columbia Technical Translations
5 Vermont Avenue
White Plains, New York 10600

DI
Circulation Unit
Department of the Interior
Central Library
Room 1149
Washington, D.C. 20240

DTC
Danish Translations Centre,
c/o Library of the Danish Atomic Energy Commission,
Riso, Roskilde, Denmark

EIS
Engineering Information Services
Kirkham, Preston, Lancashire,
England

ES
Erica Stux
584 Moreley Avenue
Akron, Ohio 44320

ETC
European Translations Centre
Doelenstraat 101, Delft,
The Netherlands

FASEB
Federation of American Societies for Experimental Biology
9650 Wisconsin Avenue
Washington, D.C. 20014

FRI
Fulmer Research Institute, Ltd.
Stoke Poges,
Buckinghamshire,
England

FT
Faraday Translations
15 Park Row
New York, New York 10038

GB
Gordon and Breach
Publishers, Inc.
150 Fifth Avenue
New York, New York 10011

GPO
Superintendent of Documents
Government Printing Office
Washington, D.C. 20402

GPRC
Geophysical & Polar Research Center
6021 S. Highland Road
Madison, Wisconsin 53706

HB
Henry Brutcher
P.O. Box 157
Altadena, California 91001

HMSO
Her Majesty's Stationery Office
P.O. Box 569
London, S.E. 1, England

HTCBN
Hungarian Trading Company for Books and Newspapers "Kultura"
Budapest 62, P.O. Box 149

ICE
International Chemical Engineering
345 East 47th Street
New York, New York 10017

IEEE
Institute of Electrical & Electronics Engineers
275 Madison Avenue
New York, New York 10016

INFOSERV
Infoserv
P.O. Box 217
West Hartford, Connecticut 06097

INT
International Patent Service N. V.
P. O. Box 101
's-Hertogenbosch,
The Netherlands

IP
Interscience Publishers, Inc.
250 Fifth Avenue
New York, New York 10001

IPST
Israel Program for Scientific Translation
Kiryat Moshe
P.O. Box 7145
Jerusalem, Israel

ISA
Instrument Society of America
530 William Penn Place
Pittsburgh, Pennsylvania 15219

K-H
Kresge-Hooker Science Library Associates
Wayne State University
Detroit, Michigan 48202

LAND-AIR
Land-Air, Inc.
Pacific Missile Range
Point Mugu, California 95468

LC
Photoduplication Service
Publication Board Project
Library of Congress
Washington, D.C. 20540

LSA
Literature Service Associates
Route 1
Bound Brook, New Jersey 08805

MACL
Maclaren and Sons, Ltd.
Maclaren House
131 Great Suffolk Street
London, S.E. 1, England

MACM
Macmillan Co.
60 Fifth Avenue
New York, New York 10011

MDF
Morris D. Friedman
7553 Waterford Drive
San Jose, California 95129

MT
M. de O. Tollemache
Pennyford Cottage,
Burrington,
Umberleigh, Devon, England

MUL
Mulholland Engineering Translations
26 Burton Woods Lane
Cincinnati, Ohio 45229

NASA
National Aeronautics and Space Administration
1520 H Street, N. W.
Washington, D. C. 20546

NRCC
National Research Council
Library
Ottawa 2, Canada

OB
Oliver & Boyd, Ltd.
Tweeddale Court
14 High Street
Edinburgh 1, Scotland

OSA
Optical Society of America, Inc.
33 University Road
Cambridge, Massachusetts 02138

OTS
Office of Technical Services
Department of Commerce
Washington, D. C. 20230
(Also available through Department of Commerce Field Offices)

PERA
The Information Manager
Production Engineering Research Association
Melton Mowbray
Leicestershire, England

PLP
Plenum Press, Inc.
227 West 17th Street
New York, New York 10011

PP
Pergamon Press
122 East 55th Street
New York, New York 10022

PS
Primary Sources
11 Bleecker Street
New York, New York 10012

RIA
Research International Associates
1522 Connecticut Avenue, N. W.
Washington, D. C. 20006

RIS
Research Information Service
Div. of Maxwell Scientific International, Inc.
122 East 55th Street
New York, New York 10022

RIS
Research Information Service
Div. of Pergamon International Corp.
122 East 55th Street
New York, New York 10022

SA
Seizaburo Aoki
Japanese Language Translation Service
15/2027 Chogo
Fujisawa, Japan

SIAM
Business Manager
SIAM Publications
Box 7541
Philadelphia, Pennsylvania 19100

SIC
Scientific Information Consultants Limited
661 Finchley Road
London N. W. 2, England

SLA
SLA Translations Center
The John Crerar Library
35 West 33rd Street
Chicago, Illinois 60616

ST
Scripta Technica, Inc.
1000 Vermont Avenue, N. W.
Washington, D. C. 20005

STS
Scientific Translation Service
1938 Verdugo Knolls Drive
Glendale, California 91200

STT
SCIENTECH, Scientific & Technical Translations
P. O. Box 3530
Cleveland, Ohio 44118

TF
Taylor and Francis Ltd.
Red Lion Court, Fleet Street
London, E. C. 4, England

TDL
Mr. John Wiley
Technical Development Laboratories
P. O. Box 769
Savannah, Georgia 31400

TIB
Technische Informationsbibliothek
Am Welfengarten 1,
Hannover, West Germany

TIC
Technical Information Company
Patents Department
Chancery House
Chancery Lane
London, W. C. 2, England

TTIS
Translation & Technical Information Services
32 Manaton Road
London, S. E. 15, England

WBI
Warren Birkenhead, Inc.
901 Northern Life Tower
Seattle, Washington 98101
or
No. 25, 2-Chome, Shiba Hamamatsu-Cho
Minato-Ku, Tokyo, Japan

CUMULATIVE INDEXES

The following Cumulative Indexes for Technical Translations are available from Superintendent of Documents, Government Printing Office, Washington, D. C. 20402:

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TECHNICAL TRANSLATIONS

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AGRICULTURE

Bespalov, N. D.
SOILS OF OUTER MONGOLIA (Pochvy Mongol'skoi Narodnoi Respubliki)
A. Gourevitch and G. Grause, trs. 1964, 318p 238refs approx. PL-480 Agr.
Order from OTS $3.25, MF$2.00 TT-64-11073

Trans of Akademiya Nauk SSSR. Mongol'skaya Komissiya. Trudy, 1951, v. 41.

For table of contents see the "Periodicals Translated Cover-to-Cover" section of this issue.

Davidescu, David.
AGRICULTURAL SCIENCE IN FULL DEVELOPMENT. 14 Aug 64, 6p JPRS: 25933.
Order from OTS HC $1.00, MF $0.50 TT-64-41204

Trans. of Stiinta si Tehnica (Rumania) 1964, v. 16, no. 6, p. 3-5.

Doroshko, I. N. and Smiyan, Yu. P.
VIRAL HEPATITIS OF DUCKS (Virusnyi Gepatit Utyat). [12p] (foreign text included) FASEB Ms no.: S 72-4.
Order from OTS or ETC HC $1.00 MF $0.50 TT-64-19628

Trans. of Veterinariya (USSR) 1963, v. 40, no. 7, p. 38-40.

Pannikov, V. D.
FOR A COMPLETE AND EFFECTIVE CHEMICALIZATION OF AGRICULTURE (Za Vsestoronnyuyu i Ratsional'nuyu Khimizatsiyu Zemledeliya). 27 Jul 64, 9p Trans. A-1461.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19544

Trans. of Zemledelie (USSR) 1964, v. 26, no. 1, p. 2-8.

Plant Cultivation

Artyukhov, I. K.
EFFECTIVENESS OF FERTILIZERS IN THE STEPPES OF THE UKRAINE (Effektivonost' Udobrenii v Stepi Ukrainy). 28 Jul 64, 11p Trans. A-1462.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19545

Trans. of Zemledelie (USSR) 1964, v. 26, no. 1, p. 26-33.

Chu, Li.
ANNUAL MEETING OF THE CHINESE AGRICULTURAL PRODUCTS SOCIETY (NO. 2). 5 Aug 64, 3p JPRS: 25741 (p. 81-83).
Order from OTS HC $6.00 MF $1.25 in TT-64-41012 (p. 81-83)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 465.

Drobkov, A. A.
INFLUENCE OF SEVERAL RADIOACTIVE ELEMENTS, URANIUM, RADIUM, AND ACTINIUM, ON THE YIELD OF PEAS
P. DePorte, tr. 13 Mar 58, 11p NIH 4-23-58.
Order from OTS or ETC HC $1.00, MF $0.50 TT-64-19437

Trans. of Akademiya Nauk SSSR. Biogeokhimicheskaya Laboratoriya. Trudy, 1939, v. 5, p. 201-204.
Another trans. is available from SLA as R-3488, 11p.

Hsi, Hui-ta.
PRINCIPLES AND METHODS OF CHEMICAL WEED REMOVAL IN RICE PADDIES. 5 Aug 64, 8p JPRS: 25741 (p. 121-128).
Order from OTS HC $6.00 MF $1.25 in TT-64-41012 (p. 121-128)

Trans. of Sheng Wu Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 14-16.

Jen, Hsi-ch'ou.
THE THEORY OF GROWTH REGULATORS IN PLANTS.
5 Aug 64, 25p JPRS: 25741 (p. 129-156).
Order from OTS HC $6.00 MF $1.25 in TT-64-41012 (p. 129-156)

Trans. of Sheng Wu Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 2, p. 9-13.

K'ung, Te-p'eng and Sun, Wei.
THE ACADEMIC CONFERENCE ON TRACTORS AND AGRICULTURAL AND FARMING POWER (NO. 1).
5 Aug 64, 3p JPRS: 25741 (p. 84-86).
Order from OTS HC $6.00 MF $1.25 in TT-64-41012 (p. 84-86)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 467.

Li, Sung-hua.
SALINE SOIL RESEARCH CONFERENCE SPONSORED BY CHINESE ACADEMIA SINICA. [NANKING, 1964].
5 Aug 64, 3p JPRS: 25741 (p. 11-13).
Order from OTS HC $6.00 MF $1.25 in TT-64-41012 (p. 11-13)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 466.

Mashtakov, S. M. and Gol'dina, S. M.
EFFECT OF AZOTOBACTERIN AND MOLYBDENUM ON THE INTAKE OF NUTRIENT SUBSTANCES AND STORAGE OF DRY MATTER BY CORN GROWN ON PEAT-BOG SOIL
P. DePorte, tr. 18 Jul 58, 41p 50refs NIH 8-35-58.
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Trans. of mono. Kukuruza v BSSR (Corn in the BSSR) Minsk, 1957, p. 204-225.
Another trans. is available from SLA as R-4729, 41p.

Peterburgskii, A. V. and Postnikov, A. V.
COMPLEX LIQUID AND SOLID FERTILIZERS, TESTING AND PROSPECTS FOR UTILIZING THEM IN THE USSR. 14 Aug 64, 27p 14refs JPRS: 25937.
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Trans. of [Moskovskaya] Sel'skokhozyaistvennaya Akademiya. Izvestiya (USSR) 1963, no. 3(52) p. 103-121.

Szklarz, Wladyslaw.
A TECHNICAL SURVEY OF SPRINKLING EQUIPMENT (Przeglad Techniczny Urzadzen Deszczujacych)
D. Lachert, tr. 1964 [46p] 20refs PL-480 Int.
Order from OTS HC $0.50 TT-61-31310

Trans. of Instytut Melioracji i Uzytkow Zielonych. Wiadomosci (Poland) 1958, no. 1, p. 158-196.

Vol'fkovich, S. I.
RESEARCH IN FERTILIZERS AND AGROCHEMISTRY: TO THE READER [AND] SCIENTIFIC RESEARCH WORKS IN FERTILIZERS AND AGROCHEMISTRY IN 1963. 9 Jul 64, 11p JPRS: 25411.
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Trans. of Agrokhimiya (USSR) 1964, no. 1, p. 3-4, 145-148.

Wang, An-ch'iu.
STUDY OF THE SALINE SOIL IMPROVEMENT PLAN OF THE NORTH CHINA PLAIN. 5 Aug 64, 13p 4refs JPRS: 25741 (p. 14-26).
Order from OTS HC $6.00 MF $1.25 in TT-64-41012 (p. 14-26)

Trans. of K'o Hsüeh T'ung Pao (Chinese People's Republic) 1964, no. 5, p. 426-431.

ASTRONOMY

Barabashov, N. P.
INVESTIGATION OF VARIOUS FORMATIONS ON MARS (Ob Issledovanii Razlichnykh Obrazovanii na Marse)
Mahlon Glascok and David Kraus, trs. Feb 64 [34p] 13refs AmMetSoc-T-R-424; AD-602 194.
Contract AF19 628 3880.
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Trans. of Astronomicheskii Zhurnal (USSR) 1952, v. 29, no. 5, p. 538-555.

Barabashov, N. P.
PRELIMINARY RESULTS OF OBSERVATIONS OF MARS (Predvaritel'nye Rezul'taty Nablyudenii Marsa)
David Kraus, tr. Feb 64, 10p AmMetSoc T-R-426; AD-602 193.
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Trans. of Akademiya Nauk SSSR. Vestnik, 1957 [v. 27] no. 5, p. 34-36.

Kozyrev, N. A.
SOME PROPERTIES OF THE MARTIAN ATMOSPHERE INDICATED BY SPECTROPHOTOMETRIC OBSERVATIONS OF 1956 (O Nekotorykh Svoistvakh Atmosfery Marsa po Spektrofotometricheskim Nablyudeniyam 1956 Goda)
David Kraus, tr. Mar 64, 10p 1ref AmMetSoc-T-R-429; AD-602 183.
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Trans. of Akademiya Nauk SSSR. Krymskaya Astrofizicheskaya Observatoriya. Izvestiya, 1958, v. 18, p. 61-65.

Tikhov, G. A.
CONCERNING N. A. KOZYREV'S ARTICLE "EXPLANATION OF THE COLOR OF MARS BY THE SPECTRAL PROPERTIES OF ITS ATMOSPHERE" (Po Povodu Stat'i N. A. Kozyreva "Ob "yasnenie Tsveta Marsa Spektral'nymi Svoistvami Ego Atmosfery)
David Kraus, tr. Mar 64, 8p 1ref AmMetSoc T-R-423; AD-602 202.
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Trans. of Akademiya Nauk SSSR. Krymskaya Astrofizicheskaya Observatoriya. Izvestiya, 1956, v. 16, p. 159-161.

Astrophysics

SOVIET-BLOC RESEARCH IN GEOPHYSICS, ASTRONOMY, AND SPACE, NO. 85. 1 Jun 64, 37p.
JPRS: 24890.
Order from OTS $16.00/year TT-61-11147-85
foreign $20.00/year

Consists of news items and abstracts of scientific articles on astronomy, meteorology, oceanography, terrestrial geophysics, upper atmosphere and space research, and other miscellaneous subjects.

SURVEYS OF SOVIET-BLOC SCIENTIFIC AND TECHNICAL LITERATURE: TIME SERVICE IN THE USSR. Special Report. 5 Aug 64 [26p]
ATD Rept. P-64-48; AD-603 696.
Order from OTS HC $2.00 MF $0.50 TT-64-71205

Blagonravov, A. A.
EXPLORATIONS OF OUTER SPACE AND UPPER LAYERS OF THE ATMOSPHERE. 17 Apr 64 [19p]
FTD-MT-63-345; AD-605 586.
Order from OTS HC $1.00, MF $0.50 TT-64-71332

Edited machine trans. of A[kademiya] N[auk] SSSR. Vestnik, 1963 [v. 33] no. 9, p. 9-16.
Other translations are available from OTS, SLA, or ETC $1.60 as TT-63-20913, 13p; OTS $1.25 in TT-63-41293, JPRS-22139, 4 Dec 63, 22p; and from OTS HC $3.00, MF $0.50 in TT-64-11965, FTD-MT-63-256, AD-602 594, 9 Mar 64, 53p.

Gul'medov, Kh. D., Lyubarskii, K. A., and Latyshev, I. N.
DEPENDENCE OF METEOR HEIGHT ON SOLAR ACTIVITY. 18 May 64, 5p FTD-TT-62-1731; AD-601 542.
Order from OTS HC $0.50 MF $0.50 TT-64-11775

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JOURNAL OF COMPUTER MATHEMATICS AND MATHEMATICAL PHYSICS

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ORGANIZATION AND CONTROL OF COMPLEX INFORMATION

- USSR -

Following is a translation of three articles in the Russian-language journal Zhurnal Vychislitel'noy Matematiki i Matematicheskoy Fiziki (Journal of Computer Mathematics and Mathematical Physics), Vol. IV, No. 3, Moscow, May-June 1964. Complete bibliographic information accompanies each article.

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OCEANOLOGY

(Okeanologiya)
1964, VOL. 4, NO. 3

RADIOCHEMICAL AND ECOLOGICAL STUDIES OF THE SEA

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(Endokrynologia Polska)

1963, VOL. 14, NO. 3-4.

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PROBLEMS OF ICHTHYOLOGY

(Voprosy Ikhtiologii)
1964, VOL. 4, NO. 2(31)

SCIENTIFIC STUDIES ON THE FISHING INDUSTRY

- USSR -

Following is the translation of selected articles from the Russian-language periodical Voprosy Ikhtiologii (Problems of Ichthyology), Moscow, Vol 4, No 2(31) 1964. Complete bibliographic information accompanies each article.

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PROBLEMS OF PSYCHOLOGY

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- USSR -

[Following are translations of selected articles from the journal Voprosy Psikhologii (Problems of Psychology), Moscow, No 3, 1963.]

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PROBLEMS OF SPACE BIOLOGY
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(Vsesoyuznyi S'ezd po Teoreticheskoi i Prikladnoi Mekhanike. Trudy)

MOSCOW, 1962.

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1962 VOL. 28, NOS. 3-4.

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SERVE THE BUSINESS COMMUNITY

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Experienced personnel will gladly assist in the solution of specific problems, explain the scope and meaning of regulations administered by the Department, and provide practical assistance in the broad field of domestic and foreign commerce. Field Offices act as official sales agents of the Superintendent of Documents, and maintain an extensive business reference library containing periodicals, directories, publications and reports from official as well as private sources.

Among the many services which businessmen have found of value are:

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- Management and business aids
- Establishing a new business

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- Census data with national and often State and regional breakdowns, on manufacturing wholesaling, retailing, service industries, employment and unemployment, population, housing, agriculture
- Basic records of national income and product, regional trends, balance of payments, foreign aid

MARKETING AND DISTRIBUTION

- Development and maintenance of markets
- Distribution channels, facilities and services
- Marketing and distribution statistics

PRODUCTION

- Modernization of plant processes and other technological aids
- Development of new products
- Government-owned patents for free license
- Commodity standards

FOREIGN TRADE AND INVESTMENT

- Tariff and exchange regulations
- Import and export quotas, licensing regulations
- Statistics on imports and exports
- Investment and trade opportunities abroad
- Economic conditions in foreign countries

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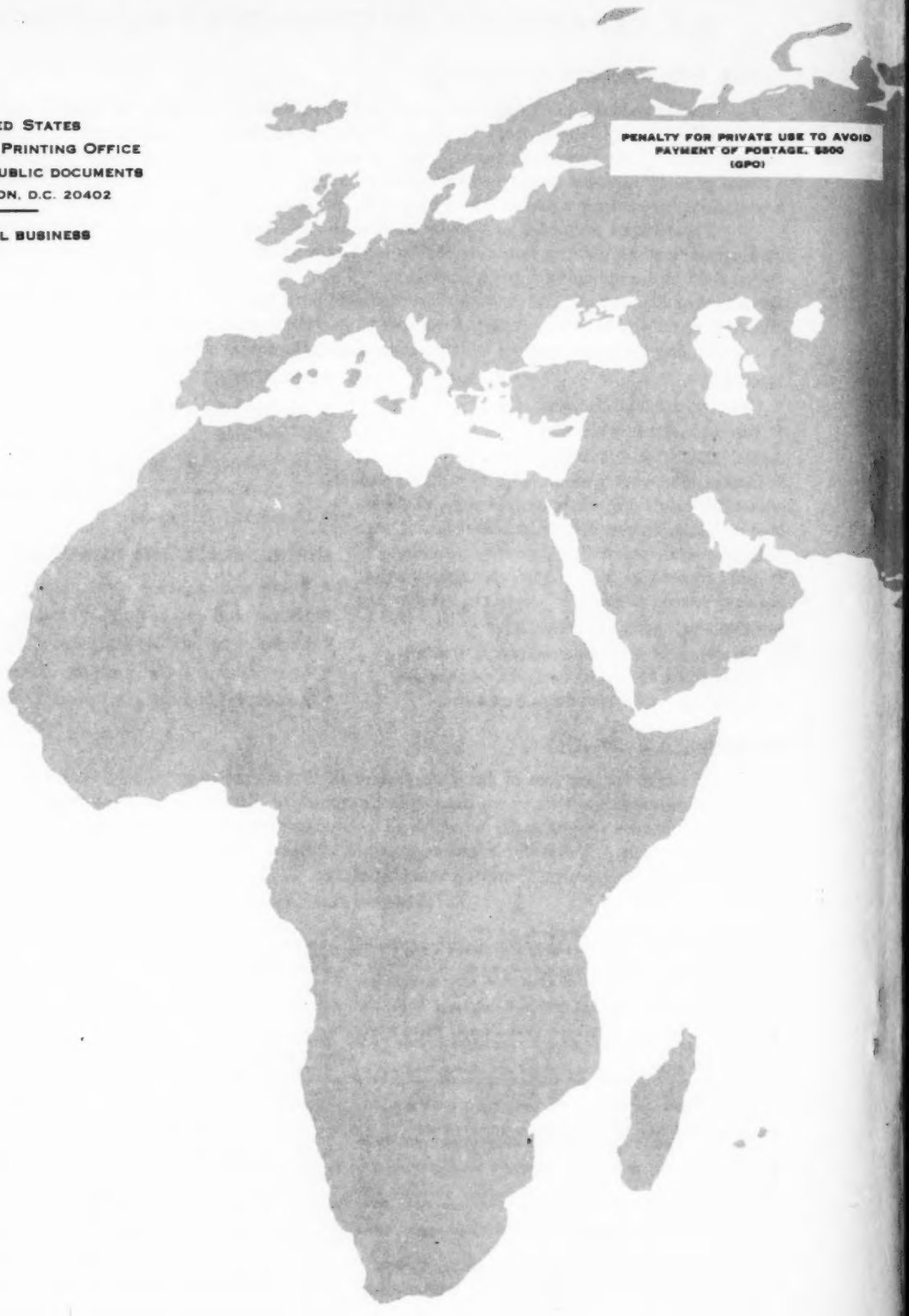

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